


EXHIBIT B

TechWeb: TechEncyclopedia





CMP
The Business Technology Network

FOCAL POINTS: Sponsored Links
Antivirus, IT Compliance, Migration, Operations Research, Storage, Voice & Data Integration

SEARCH

[News](#) |
 [Mobile](#) |
 [Software](#) |
 [Security](#) |
 [E-Business & Management](#) |
 [Networking](#) |
 [Hardware](#) |
 [Pipeline Sites](#)

Choose Site

[Visit Network](#)

TechEncyclopedia More than 20,000 IT terms

Results found for: CICS

CICS

(Customer Information Control System) A TP monitor from IBM that was originally developed to provide transaction processing for IBM mainframes. It controls the interaction between applications and users and lets programmers develop screen displays without detailed knowledge of the terminals used. It provides terminal routing, password security, transaction logging for error recovery and activity journals for performance analysis.

CICS has also been made available on non-mainframe platforms including the RS/6000, AS/400 and OS/2-based PCs.


CICS commands are written along with and into the source code of the applications, typically COBOL, although assembly language, PL/I and RPG are also used. CICS implements SNA layers 4, 5 and 6.

Search For CICS On TechWeb

Find the latest news and information on CICSfr across the TechWeb Network of IT Web sites.

Advertisement

The workhorse of server processors now works harder than ever.



■ TERMS SIMILAR TO YOUR ENTRY

Entries before CICS

- ▶ [CHUI](#)
- ▶ [churning](#)
- ▶ [churn_rate](#)
- ▶ [CIA](#)
- ▶ [CIAC](#)

Entries after CICS

- ▶ [CICS_programmer](#)
- ▶ [CID](#)
- ▶ [cider](#)
- ▶ [CIDR](#)
- ▶ [CIE](#)

■ DEFINE ANOTHER IT TERM

Or get a [random definition](#)

THIS COPYRIGHTED DEFINITION IS FOR PERSONAL USE ONLY.
All other reproduction is strictly prohibited without permission from the publisher.

Copyright (©) 1981-2004 The Computer Language Company.
Inc All rights reserved.

TECHWEB NETWORK

[TechWeb](#) | [InformationWeek](#) | [Network Computing](#) | [InternetWeek](#) | [Optimize Magazine](#) | [Network Magazine](#) | [Intelligent Enterprise](#) | [Transform](#) | [IT Pro Downloads](#) | [Government Enterprise](#) | [Bank Systems & Technology](#) | [Wall Street & Technology](#) | [Insurance & Technology](#)

[Pipeline](#): [Advanced IP](#) | [Business Intelligence](#) | [Con CommWeb](#) | [Database](#) | [Desktop](#) | [Developer](#) | [Enter Applications](#) | [IT Utility](#) | [Linux](#) | [Messaging](#) | [Mobile](#) | [Networking](#) | [Outsourcing](#) | [Security](#) | [Server](#) | [Small Business](#) | [Storage](#) | [Systems Management](#) | [Web Se](#)

TECHWEB NEWSLETTERS

Crush the competition with the latest news from TechWeb's collection of essential e-mail newsletters.

TECHWEB ENCYCLOPEDIA

Get definitions for more than 20,000 IT

SPONSOR CONT

Sponsors:

- [Optimize your resources. No result. Click here](#)
- [The right software monitoring SL easier.](#)
- [Old PCs can't](#)



INTRODUCING THE NEW ULTRA
SMALL DESKTOP FROM IBM.



CMP

United Online Media

TechWeb

The Business Technology Network

FOCAL POINTS: Sponsored Links

Antivirus, IT Compliance, Migration, Operations Research, Storage, Voice & Data Integration

SEARCH

Choose Site

GO

News

Mobile

Software

Security

E-Business & Management

Networking

Hardware

Pipeline Sites

Visit Network

TechEncyclopedia More than 20,000 IT terms

Results found for: TP monitor

TP monitor

(TeleProcessing monitor or Transaction Processing monitor) A control program that manages the transfer of data between multiple local and remote terminals and the application programs that serve them. It may also include programs that format the terminal screens and validate the data entered.

In a distributed client/server environment, a TP monitor provides integrity by ensuring that transactions do not get lost or damaged. It may be placed in a separate machine and used to balance the load between clients and various application servers and database servers. It is also used to create a high availability system by switching a failed transaction to another machine. A TP monitor guarantees that all databases are updated from a single transaction (see [two-phase commit](#)).

Examples of popular TP monitors are CICS, a veteran TP monitor used on IBM mainframes and the Unix-based Tuxedo and Encina products. See [BEA Tuxedo](#) and [Encina](#).

■ TERMS SIMILAR TO YOUR ENTRY

Entries before TP monitor

- ▶ TPC-D
- ▶ IPF
- ▶ tpj
- ▶ TPM
- ▶ tpnC

Entries after TP monitor

- ▶ TPMS
- ▶ TPO
- ▶ TPS
- ▶ tpsA
- ▶ tpsB

■ DEFINE ANOTHER IT TERM

Or get a [random definition](#)

THIS COPYRIGHTED DEFINITION IS FOR PERSONAL USE ONLY.
All other reproduction is strictly prohibited without permission from the publisher.

Copyright (©) 1981-2004 [The Computer Language Company](#).
Inc All rights reserved.

Search For TP monitor On TechWeb

Find the latest news and information on TP monitor
across the TechWeb Network of IT Web sites.

Advertisement



TECHWEB NETWORK

[TechWeb](#) | [InformationWeek](#) | [Network Computing](#) |
[InternetWeek](#) | [Optimize Magazine](#) | [Network Magazine](#) |
[Intelligent Enterprise](#) | [Transform](#) | [IT Pro Downloads](#) |
[Government Enterprise](#) | [Bank Systems & Technology](#) |
[Wall Street & Technology](#) | [Insurance & Technology](#)

[Pipelines](#): [Advanced IP](#) | [Business Intelligence](#) | [Con](#)
[CommWeb](#) | [Database](#) | [Desktop](#) | [Developer](#) | [Enter](#)
[Applications](#) | [IT Utility](#) | [Linux](#) | [Messaging](#) | [Mobile](#) |
[Networking](#) | [Outsourcing](#) | [Security](#) | [Server](#) | [Small](#)
[Business](#) | [Storage](#) | [Systems Management](#) | [Web Se](#)

TECHWEB NEWSLETTERS

Crush the competition with the latest
news from TechWeb's collection of
essential e-mail newsletters.

Your e-mail address

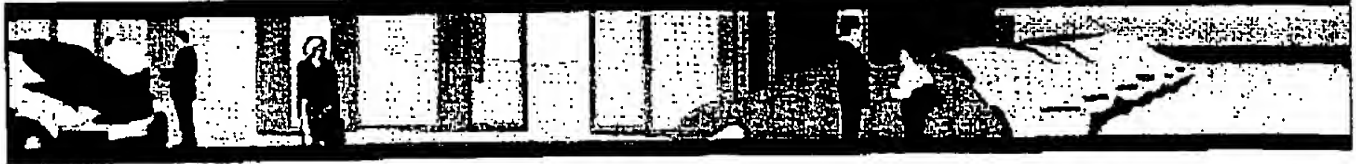
TECHWEB GLOSSARY

Get definitions for more than 20,000 IT

SPONSOR
CONTENT

Sponsors

- [Optimize your resources. Measure results. Click here how](#)
- [Conquer over TCO: Download Playbook for strategies](#)



FOCAL POINTS: Sponsored Links
 Antivirus, IT Compliance, Migration, Operations Research, Storage, Voice & Data
 Integration

SEARCH Enter term(s) Choose Site

News | Mobile | Software | Security | E-Business & Management | Networking | Hardware | Pipeline Sites | Visit Network

TechEncyclopedia More than 20,000 IT terms

Results found for: SNA

SNA

(Systems Network Architecture) IBM's mainframe network standards introduced in 1974. Originally a centralized architecture with a host computer controlling many terminals, enhancements, such as APPN and APPC (LU 6.2), have adapted SNA to today's peer-to-peer communications and distributed computing environment. Following are some of SNA's basic concepts.

Nodes and Data Links

In SNA, nodes are end points or junctions, and data links are the pathways between them. Nodes are defined as Type 5 (hosts), Type 4 (communications controllers) and Type 2 (peripheral; terminals, PCs and midrange computers).

Type 2.0 nodes can communicate only with the host, and Type 2.1 nodes can communicate with other 2.1 nodes (peer-to-peer) without going to the host.

Data links include high-speed local channels, the SDLC data link protocol and Token Ring.

SSCPs, PUs and LUs

The heart of a mainframe-based SNA network is the SSCP (System Services Control Point) software that resides in the host. It manages all resources in its domain.

Within all nodes of an SNA network, except for Type 2.1, there is PU (Physical Unit) software that manages node resources, such as data links, and controls the transmission of network management information. In Node Type 2.1, Control Point software performs these functions.

In order to communicate user data, a session path is created between two end points, or LUs (Logical Units). When a session takes place, an LU-LU session is established between an LU in the host (CICS, TSO, user application, etc.) and an LU in the terminal controller or PC.

An LU 6.2 session provides peer-to-peer communication and lets either side initiate the session.

VTAM and NCP

VTAM (Virtual Telecommunications Access Method) resides in the host and contains the SSCP, the PU for the host, and establishes the LU sessions within the host.

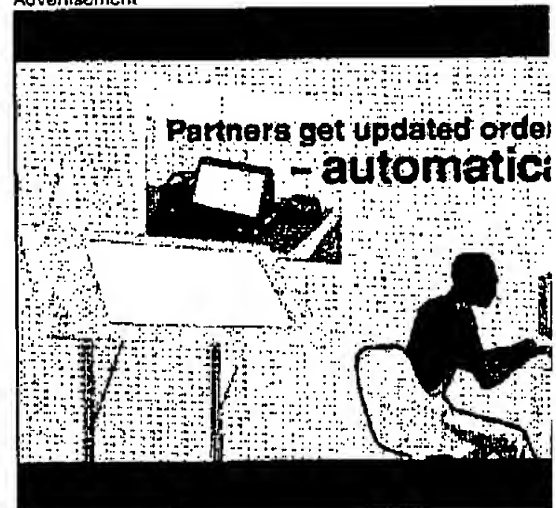
NCP (Network Control Program) resides in the communications controller (front end processor) and manages the routing and data link protocols, such as SDLC and Token Ring.

Search For SNA On TechWeb

Find the latest news and information on SNA from across the TechWeb Network of IT Web sites.

[Search Now!](#)

Advertisement



TECHWEB NETWORK

[TechWeb](#) | [InformationWeek](#) | [Network Computing](#) | [InternetWeek](#) | [Optimize Magazine](#) | [Network Magazine](#) | [Intelligent Enterprise](#) | [Transform](#) | [IT Pro Downloads](#) | [Government Enterprise](#) | [Bank Systems & Technology](#) | [Wall Street & Technology](#) | [Insurance & Technology](#)

[Pipeline](#): [Advanced IP](#) | [Business Intelligence](#) | [Com](#) | [CommWeb](#) | [Database](#) | [Desktop](#) | [Developer](#) | [Enter](#) | [Applications](#) | [IT Utility](#) | [Linux](#) | [Messaging](#) | [Mobile](#) | [Networking](#) | [Outsourcing](#) | [Security](#) | [Server](#) | [Small Business](#) | [Storage](#) | [Systems Management](#) | [Web Site](#)

TECHWEB NETWORK

Crush the competition with the latest news from TechWeb's collection of essential e-mail newsletters.

Your e-mail address

[Subscribe](#)

TECHWEB NETWORK

Get definitions for more than 20,000 IT

SPONSOR CONTENT

Sponsored

- Optimize your resources. Me result. Click here how
- The right software monitoring SL easier.
- Old PCs can r

TechWeb: TechEncyclopedia

Page 2 of 3

SNA Layers

SNA is implemented in functional layers starting with the application that triggers the communications down to the bottom layers which transmit packets from station to station. This layering is called a "protocol stack." The SNA stack is compared with the OSI model below. Although SNA had major influence on the OSI model, there are differences in implementation.

From Computer Desktop Encyclopedia
© 1998 The Computer Language Co. Inc.



OSI MODEL		SNA	
7	Application Layer Type of communication: E-mail, file transfer, client/server.	Transaction Services	
6	Presentation Layer Encryption, data conversion: ASCII to EBCDIC, BCD to binary, etc.	Presentation Services	
5	Session Layer Starts, stops session. Maintains order.	Data Flow Control	
4	Transport Layer Ensures delivery of entire file or message.	Transmission Control	
3	Network Layer Routes data to different LANs and WANs based on network address.	Path Control	
2	Data Link (MAC) Layer Transmits packets from node to node based on station address.	Data Link Control	
1	Physical Layer Electrical signals and cabling.	Physical Control	

■ TERMS SIMILAR TO YOUR ENTRY

Entries before SNA

- ▶ [SMS \(installer\)](#)
- ▶ [SMT](#)
- ▶ [SMTP](#)
- ▶ [SMTPi](#)
- ▶ [smurf attack](#)

Entries after SNA

- ▶ [SNA-A](#)
- ▶ [SNAC](#)
- ▶ [SNADS](#)
- ▶ [snail mail](#)
- ▶ [SNA Over Async](#)

■ DEFINE ANOTHER IT TERM

terms.

Tech term

go

TECHWEBCASTS

Editorial and vendor perspectives
[Empowering All Users with Reporting](#)
[Online Commerce: Increasing Profits and](#)
[Customer Loyalty](#)

VENDOR RESOURCES

[Fire resistant cables in your upgrade plans.](#)

FOCAL POINTS sponsored links

[How busy executives make better decisions](#)
[FREE Trial of Trend Micro Award-Winning Products](#)

catastrophic d
 Upgrade now,
 • Protect the bu
 protective abor

Custom N
 Of The
Enterprise
 wide

Is yo
 netw